



# Premium Grade HDPE, B-Grade and Utility Plastic Lumber

TEST TYPE	Note	ASTM Standard	Average Results			Standard Deviation	
Density/Specific Gravity (g/cc)	I	D611-97	0.68559			0.00434	
Compression	I	D6108-97	Elastic Modulus			(psi)	
			92,249			3,328	
			Stress at 3% Strain			(psi)	
			1,734			46	
Flexure	II	D6109-97	Elastic Modulus			(psi)	
			112,000			1,560	
			Stress at 3% Strain			(psi)	
			2,358			29.4	
Fastener Pullout Failure Load (lbs.)	I	D6117-97	452			5	
Fastener Shear Maximum Load (lbs.)	I	D6117-97	2,464			67	
Thermal Expansion (in/in/°F)	II	D6341-98	4.965 x 10 <sup>-5</sup>			2.057 x 10 <sup>-6</sup>	
Friction Coefficient	II	D2394-83	Material	Dry		Wet	
				Static	Sliding	Static	Sliding
			Leather	0.27	0.22	0.32	0.29
			Rubber	0.55	0.46	0.70	0.67
Flame Spread	II	E108 Modified per D6662	PASSED				

## Notes:

- Testing conducted by Battelle of Columbus, OH
- Warnock Hershey Certified for ASTM D6662-01 by Intertek Testing Services NA Ltd. of Coquitlam, BC.
- For further information on our ASTM standards please contact your Plastic Lumber Yard representative.
- For further information on Intertek Testing Services NA Ltd. and the Warnock Hershey certification, please contact ITS at: [www.ETLSemko.com](http://www.ETLSemko.com)
- For Further information and their processes please contact ASTM at: [www.astm.org](http://www.astm.org)

## Chemical Resistance

Since high density polyethylene has a high resistance to most acids and chemicals, Plastic Lumber is not affected by exposure to most substances.

## Ultraviolet Weathering

An ultraviolet stabilizer is incorporated at the time of manufacture. It protects the plastic from ultraviolet light degradation and ensures that the outside of the product will not degrade in exterior applications.



## Premium Grade Plastic Lumber Span Table

LUMBER SIZE (INCHES)	MAXIMUM UNIFORM LOAD	
	40 PSF	100 PSF
	SPAN (INCHES)	
3/4 x 5 1/2	12	9
3/4 x 6	12	9
1 x 5 1/2	16	11
1 1/2 x 3 1/2	16	11
1 1/2 x 5 1/2	23	17